



0 Substitute for form 1449A/PTO (Revised 10/2001) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/647,062
				Filing Date	August 22, 2003
				First Named Inventor	Zhong, <i>et al.</i>
				Group Art Unit	3661
				Examiner Name	Donnelly, Arthur D.
Sheet	1	of	4	Attorney Docket Number	018360-254508

OTHER PRIOR ART: NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T?
M.L.	62	KUHN, H.W.; "The Hungarian Method for the Assignment Problem," NAVAL RESEARCH LOGISTICS QUARTERLY (1955); pp. 83-97, Vol. 2.	N/A
M.L.	63	BEARDWOOD, Jillian, <i>et al.</i> ; "The Shortest Path Through Many Points," PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY (Mar. 1958); pp. 299-328, Vol. 55.	N/A
M.L.	64	GILLET, Billy E., <i>et al.</i> ; "A Heuristic Algorithm for the Vehicle-Dispatch Problem," OPERATIONS RESEARCH (April 1971); pp. 340-49, Vol. 22.	N/A
M.L.	65	FISHER, M.L., <i>et al.</i> ; "A Generalized Assignment Heuristic for Vehicle Routing," NETWORKS (1981); pp. 109-124, Vol. 11.	N/A
M.L.	66	CHRISTOFIDES, Nicos, <i>et al.</i> ; "State-Space Relaxation Procedures for the Computation of Bounds to Routing Problems," NETWORKS (1981); pp. 145-64, Vol. 11.	N/A
M.L.	67	BEASLEY, J.E.; "Fixed Routes," JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY (1984); pp. 49-55, Vol. 35, No. 1.	N/A
M.L.	68	DAGANZO, Carlos F.; "The Distance Traveled to Visit N Points With a Maximum of C Stops Per Vehicle: An Analytical Model and An Application," TRANSPORTATION SCIENCE (Nov. 1984); pp. 331-50; Vol. 18, No. 4.	N/A
M.L.	69	DROR, M., <i>et al.</i> ; "Stochastic Vehicle Routing With Modified Savings Algorithm," European Journal of Operational Research (1986); pp. 228-35; Vol. 23.	N/A
M.L.	70	DAGANZO, Carlos F.; "One-to-Many Distribution With Trans-Shipments," LOGISTICS SYSTEMS ANALYSIS (3rd Ed. 1999, Springer-Verlag, Berlin); Chapter 5; pp. 163-210.	N/A
M.L.	71	DAGANZO, Carlos F.; "Many-to-Many Distribution," LOGISTICS SYSTEMS ANALYSIS (3rd Ed. 1999, Springer-Verlag, Berlin); Chapter 6; pp. 211-73.	N/A
M.L.	72	OSMAN, Ibrahim H., <i>et al.</i> ; "Meta-Heuristics: An Overview," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 1; pp. 1-21.	N/A

Examiner Signature	MATTHEW LUU	Date Considered	5/14/06	4
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M.L.	73	AL-MAHMEED, Ahmed S.; "Tabu Search, Combination and Integration," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 20; pp. 319 – 330.	N/A
M.L.	74	BATTITI, Roberto, <i>et al.</i> ; "Vector Quantization with the Reactive Tabu Search," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 21; pp. 331 – 342.	N/A
M.L.	75	CASTELINO, Diane, <i>et al.</i> ; "Tabu Thresholding for the Frequency Assignment Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 22; pp. 343 – 359.	N/A
M.L.	76	DELL'AMICO, Mauro, <i>et al.</i> ; "A New Tabu Search Approach to the 0-1 Equicut Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 23; pp. 361 – 377.	N/A
M.L.	77	DOWSLAND, Kathryn, A.; "Simple Tabu Thresholding and the Pallet Loading Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 24; pp. 379 – 405.	N/A
M.L.	78	GLOVER, Fred, <i>et al.</i> ; "Critical Event Tabu Search for Multidimensional Knapsack Problems," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 25; pp. 407 – 427.	N/A
M.L.	79	GLOVER, Fred, <i>et al.</i> ; "Solving Dynamic Stochastic Control Problems in Finance Using Tabu Search with Variable Scaling," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 26; pp. 429 – 448.	N/A
M.L.	80	HANAFI, S., <i>et al.</i> ; "Comparison of Heuristics for the 0-1 Multidimensional Knapsack Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 27; pp. 449 – 465.	N/A
M.L.	81	LØKKETANGEN, Arne, <i>et al.</i> ; "Probabilistic Move Selection in Tabu Search for Zero-One Mixed Integer Programming Problems," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 28; pp. 467 – 487.	N/A

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M.L.	82	SONDERGELD, Lutz, <i>et al.</i> ; "A Star-Shaped Diversification Approach in Tabu Search," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 29; pp. 489 – 502.	N/A
M.L.	83	TOULOUSE, Michel, <i>et al.</i> ; "Communication Issues in Designing Cooperative Multi-Thread Parallel Searches," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 30; pp. 503 – 522.	N/A
M.L.	84	TSENG, Fan; "A Study on Algorithms for Selecting r Best Elements from An Array," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 31; pp. 523 – 535.	N/A
M.L.	85	VALLS, Vicente, <i>et al.</i> ; "A Modified Tabu Thresholding Approach for the Generalised Restricted Vertex Colouring Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 32; pp. 537 – 553.	N/A
M.L.	86	WOODRUFF, David L.; "Chunking Applied to Reactive Tabu Search," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 33; pp. 555 – 569.	N/A
M.L.	87	ZACHARIASEN, Martin, <i>et al.</i> ; "Tabu Search on the Geometric Traveling Salesman Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 34; pp. 571 – 587.	N/A
M.L.	88	CHARON, Irène, <i>et al.</i> ; "Mixing Different Components of Metaheuristics," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 35; pp. 589 – 603.	N/A
M.L.	89	TEN EIKELDER, H.M.M., <i>et al.</i> ; "A Probabilistic Analysis of Local Search," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 36; pp. 605 – 618.	N/A
M.L.	90	POTVIN, Jean-Yves, <i>et al.</i> ; "The Clustered Traveling Salesman Problem: A Genetic Approach," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 37; pp. 619 – 631.	N/A

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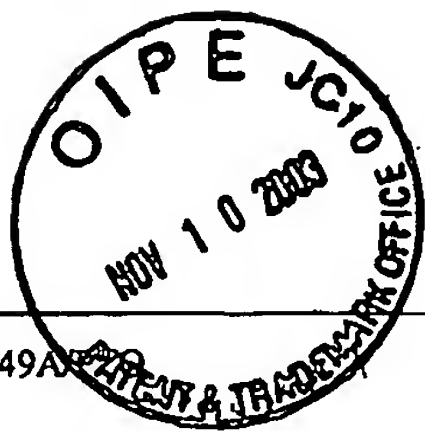
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M.L.	91	EGLESE, Richard W., <i>et al.</i> ; "A Tabu Search Based Heuristic for Arc Routing with a Capacity Constraint and Time Deadline," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 38; pp. 633 – 649.	N/A
M.L.	92	GHAZIRI, Hassan; "Supervision in the Self-Organizing Feature Map: Application to the Vehicle Routing Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 39; pp. 651 – 660.	N/A
M.L.	93	REGO, César, <i>et al.</i> ; "A Parallel Tabu Search Algorithm Using Ejection Chains for the Vehicle Routing Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 40; pp. 661 – 675.	N/A
M.L.	94	TOTH, Paolo, <i>et al.</i> ; "Fast Local Search Algorithms for the Handicapped Persons Transportation Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 41; pp. 677 – 690.	N/A
M.L.	95	ERERA, Alan L.; "Design of Large-Scale Logistics Systems for Uncertain Environments" (Fall 2000, Dissertation, University of California, Berkeley); pp. 1-206.	N/A

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**INFORMATION DISCLOSURE
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Filing Date	August 22, 2003
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U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number - Kind Code	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
M.L.	1	5,122,959 - A	01-16-1992	Nathanson, <i>et al.</i>	Whole Document
M.L.	2	5,197,009 - A	03-23-1993	Hoffman, Jr., <i>et al.</i>	Whole Document
M.L.	3	5,255,349 - A	10-19-1993	Thakoor, <i>et al.</i>	Whole Document
M.L.	4	5,272,638 - A	12-21-1993	Martin, <i>et al.</i>	Whole Document
M.L.	5	5,568,381 - A	10-22-1996	Hara, <i>et al.</i>	Whole Document
M.L.	6	5,983,198 - A	11-09-1999	Mowery, <i>et al.</i>	Whole Document
M.L.	7	6,272,483 - B1	08-07-2001	Joslin, <i>et al.</i>	Whole Document
M.L.	8	2002/0046073 - A1	04-18-2002	Indseth, <i>et al.</i>	Whole Document
M.L.	9	2002/0082772 - A1	06-27-2002	Okano	Whole Document
M.L.	10	6,418,398 - B1	07-09-2002	Dueck, <i>et al.</i>	Whole Document
M.L.	11	6,510,384 - B2	01-21-2003	Okano	Whole Document
M.L.	12	2003/0014286 - A1	01-26-2003	Cappellini	Whole Document
M.L.	13	2003/0028319 - A1	02-06-2003	Khavakh, <i>et al.</i>	Whole Document
M.L.	14	2003/0033083 - A1	02-13-2003	Nakashima, <i>et al.</i>	Whole Document
M.L.	15	2003/0060924 - A1	03-27-2003	Ye, <i>et al.</i>	Whole Document
M.L.	16	2003/0084011 - A1	05-01-2003	Shetty	Whole Document
M.L.	17	2003/0093391 - A1	05-15-2003	Shackleford	Whole Document
M.L.	18	2003/0135304 - A1	07-17-2003	Sroub, <i>et al.</i>	Whole Document

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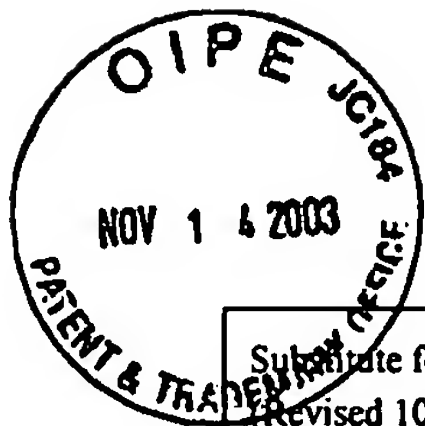
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M.L.	19	JP	2000 112,925	A2	04-21-2000	Okano	Whole Document	Abstract Only

OTHER PRIOR ART: NON-PATENT LITERATURE DOCUMENTS			
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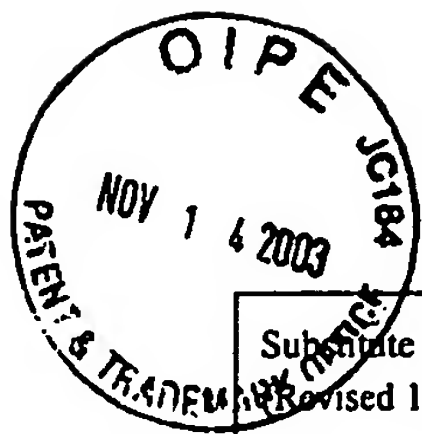
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M.L.	20	SOLOMON, F.; "Algorithms for the Vehicle Routing and Scheduling Problems With Time Window Constraints;" OPERATIONS RESEARCH; March-April 1987, pp. 254-65, Vol. 35, No. 2; Operations Research Society of America.	N/A
M.L.	21	GENDREAU, M., <i>et al.</i> ; "A Tabu Search Heuristic for the Vehicle Routing Problem With Stochastic Demands and Customers;" OPERATIONS RESEARCH; May-June 1996; pp. 469-77, Vol. 44, No. 3; Informs.	N/A
M.L.	22	HALL, R., <i>et al.</i> ; "Use of Continuous Approximations within Discrete Algorithms for Routing Vehicles: Experimental Results and Interpretation;" NETWORKS; 1994; pp. 43-56, Vol. 24; John Wiley & Sons, Inc.	N/A

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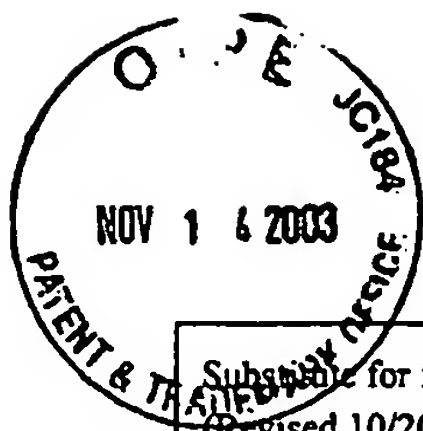
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M.L.	23	LAGUNA, M., <i>et al.</i> ; "Tabu Search for the Multilevel Generalized Assignment Problem;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1995; pp. 176-89; Vol. 82; Elsevier Science B.V.	N/A
M.L.	24	RUSSELL, R.; "Hybrid Heuristics for the Vehicle Routing Problem with Time Windows;" TRANSPORTATION SCIENCE; May 1995; pp. 156-66, Vol. 29, No.2; Institute for Operations Research and the Management Sciences.	N/A
M.L.	25	LAPORTE, G.; "The Vehicle Routing Problem: An Overview of Exact and Approximate Algorithms;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1992; pp. 345-58; Vol. 59; Elsevier Science Publishers B.V.	N/A
M.L.	26	KALL, P.; "Stochastic Programming;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1982; pp. 125-30; Vol. 10; North-Holland Publishing Company.	N/A
M.L.	27	POTVIN, J., <i>et al.</i> ; "A Parallel Route Building Algorithm for the Vehicle Routing and Scheduling Problem with Time Windows;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1993; pp. 331-40; Vol. 66; Elsevier Science Publishers B.V.	N/A
M.L.	28	STEWART, Jr., W., <i>et al.</i> ; "Stochastic Vehicle Routing: A Comprehensive Approach;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1983; pp. 371-85; Vol. 14; Elsevier Science Publishers B.V.	N/A
M.L.	29	DROR, M., <i>et al.</i> ; "Vehicle Routing With Stochastic Demands: Properties and Solution Frameworks;" TRANSPORTATION SCIENCE; August 1989; pp. 166-76, Vol. 23, No. 3; Operations Research Society of America.	N/A
M.L.	30	LAPORTE, G., <i>et al.</i> ; "Models and Exact Solutions for a Class of Stochastic Location-Routing Problems;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; February 1988; pp. 71-78; Vol. 39; Elsevier Science Publishers B.V.	N/A
M.L.	31	BERTSIMAS, D., <i>et al.</i> ; "A Stochastic and Dynamic Vehicle Routing Problem in the Euclidean Plane;" OPERATIONS RESEARCH; July-August 1991; pp. 601-15, Vol. 39, No. 4; Operations Research Society of America.	N/A
M.L.	32	HALL, R.; "Graphical Interpretation of the Transportation Problem;" TRANSPORTATION SCIENCE; February 1989; pp. 37-45, Vol. 23, No. 1; Operations Research Society of America.	N/A

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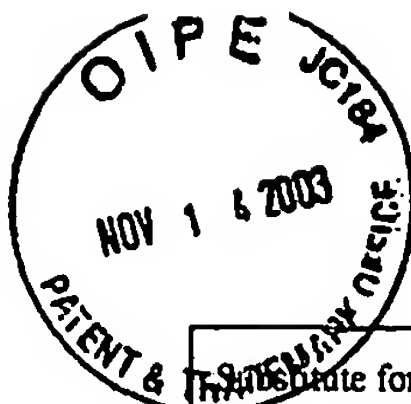


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M.L.	33	BERTSIMAS, D., <i>et al.</i> ; "Computational Approaches to Stochastic Vehicle Routing Problems;" TRANSPORTATION SCIENCE; November 1995; pp. 342-52, Vol. 29, No. 4; Institute for Operations Research and the Management Sciences.	N/A
M.L.	34	GENDREAU, M. <i>et al.</i> ; "Invited Review: Stochastic Vehicle Routing;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1996; pp. 3-12; Vol. 88; Elsevier Science B.V.	N/A
M.L.	35	BERTSIMAS, D.; "A Vehicle Routing Problem With Stochastic Demand;" OPERATIONS RESEARCH; May-June 1992; pp. 574-85, Vol. 40, No. 3; Operations Research Society of America.	N/A
M.L.	36	SAVELSBERGH, M., <i>et al.</i> ; "A Comparison of the Efficiency of Fixed Versus Variable Vehicle Routes;" JOURNAL OF BUSINESS LOGISTICS; 1995; pp. 163-87, Vol. 16, No. 1.	N/A
M.L.	37	BEASLEY, J., <i>et al.</i> ; "Vehicle Routing With a Sparse Feasibility Graph;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1997; pp. 499-511; Vol. 98; Elsevier Science Publishers B.V.	N/A
M.L.	38	WONG, K., <i>et al.</i> ; "Vehicle Routing Using Fixed Delivery Areas;" OMEGA INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE; 1984; pp. 591-600, Vol. 12 No. 6; Pergamon Press Ltd.	N/A
M.L.	39	HALL, R.; "Design for Local Area Freight Networks;" TRANSPORTATION RESEARCH - B; 1993; pp. 79-81, Vol. 27B No. 2; Pergamon Press Ltd.	N/A
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Examiner Signature	MATTHEW LUU	Date Considered	5/14/06
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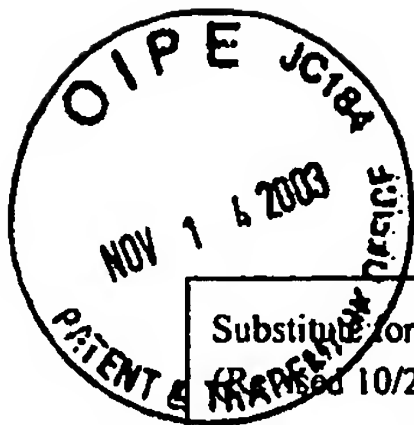


INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/647,062
				Filing Date	August 22, 2003
				First Named Inventor	Zhong, <i>et al.</i>
				Group Art Unit	
Examiner Name					
Sheet	4	of	5	Attorney Docket Number	018360-254508

OTHER PRIOR ART: NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T?
M.L.	44	WATERS, C.; "Vehicle-Scheduling Problems with Uncertainty and Omitted Customers;" JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY; 1989; pp. 1099-1108, Vol. 40, No. 12; Operational Research Society Ltd.	N/A
M.L.	45	GENDREAU, M., <i>et al.</i> ; "An Exact Algorithm for the Vehicle Routing Problem with Stochastic Demands and Customers;" TRANSPORTATION SCIENCE; May 1995; pp. 143-55, Vol. 29, No. 2; Institute for Operations Research and the Management Sciences.	N/A
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M.L.	47	LORENA, L.; <i>et al.</i> ; "Relaxation Heuristics for a Generalized Assignment Problem;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1996; pp. 600-10; Vol. 91; Elsevier Science B.V.	N/A
M.L.	48	ROSS, G., <i>et al.</i> ; "A Branch and Bound Algorithm for the Generalized Assignment Problem;" MATHEMATICAL PROGRAMMING; 1975; pp. 91-103; Vol. 8; North-Holland Publishing Company.	N/A
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M.L.	50	HANCOCK, W., <i>et al.</i> ; "Planning, Design and Control: The Learning Curve;" HANDBOOK OF INDUSTRIAL ENGINEERING, 1992; Chapter 61; pp. 1585-98; 2nd Ed; Salvendy, G. (ed.); John Wiley & Sons.	N/A
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M.L.	54	BERTSIMAS, D., <i>et al.</i> ; "Stochastic and Dynamic Vehicle Routing in the Euclidean Plane with Multiple Capacitated Vehicles;" OPERATIONS RESEARCH; January-February 1993; pp. 60-76, Vol. 41, No. 1; Operations Research Society of America.	N/A
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M.L.	58	CATTRYSSE, D., <i>et al.</i> ; "A Survey of Algorithms for the Generalized Assignment Problem;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1992; pp. 260-72; Vol. 60; Elsevier Science Publishers B.V.	N/A
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M.L.	60	SAVELSBERGH, M., <i>et al.</i> ; "Drive: Dynamic Routing of Independent Vehicles;" OPERATIONS RESEARCH; July-August 1998; pp. 474-90, Vol. 46, No. 4; Informs.	N/A
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